

FIG. 1

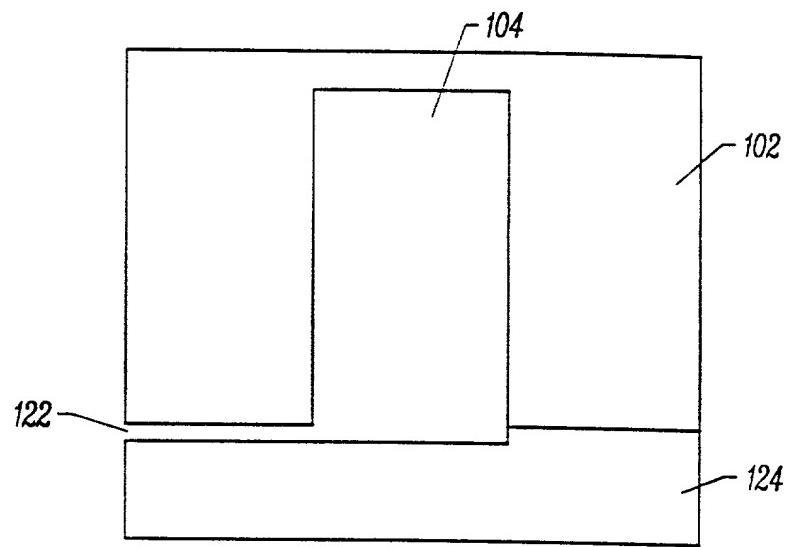


FIG. 2A

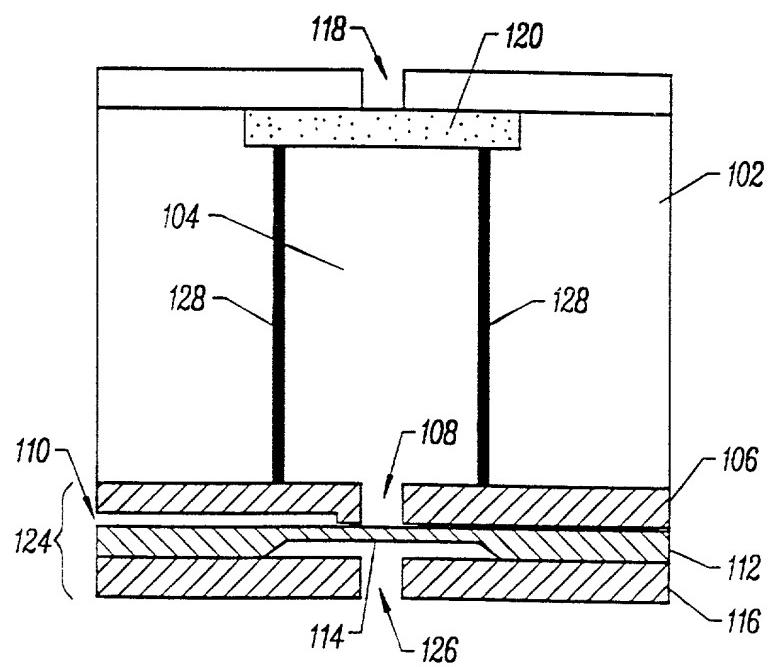


FIG. 2B

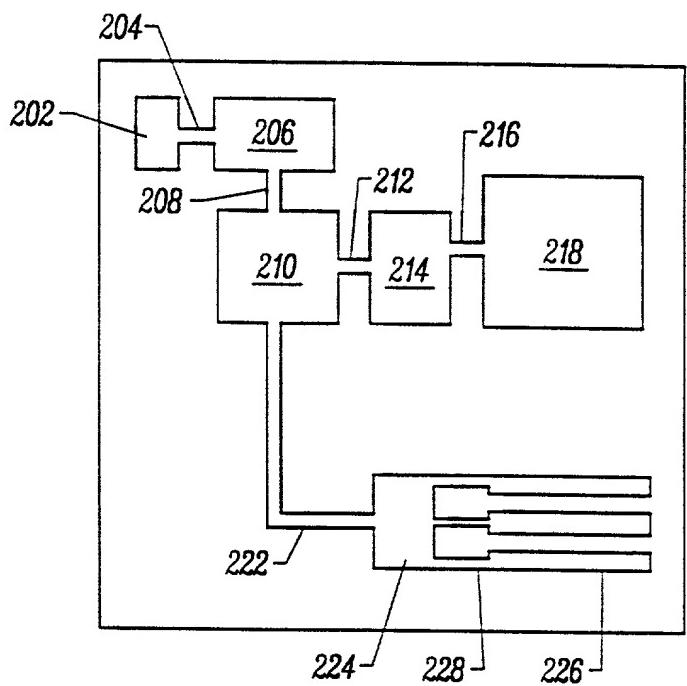


FIG. 3

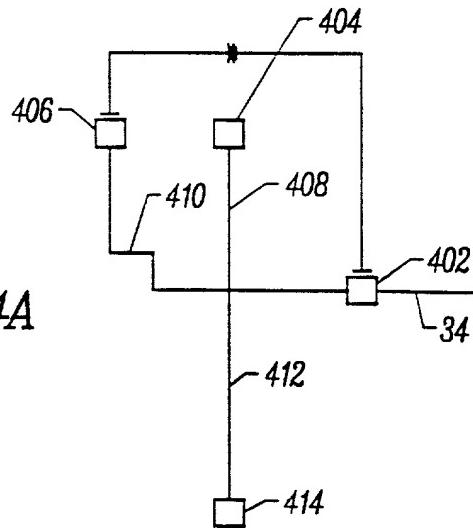


FIG. 4A

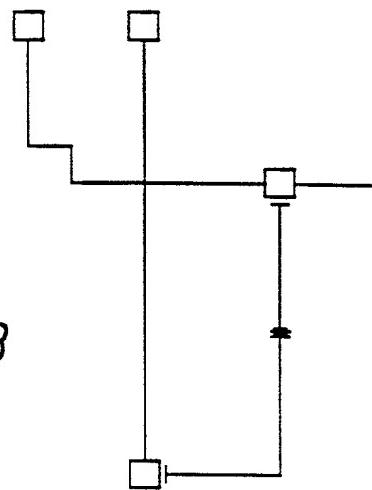


FIG. 4B

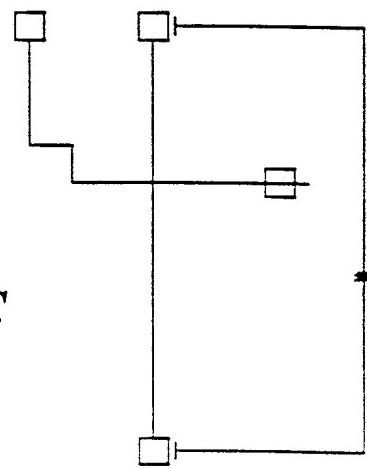


FIG. 4C

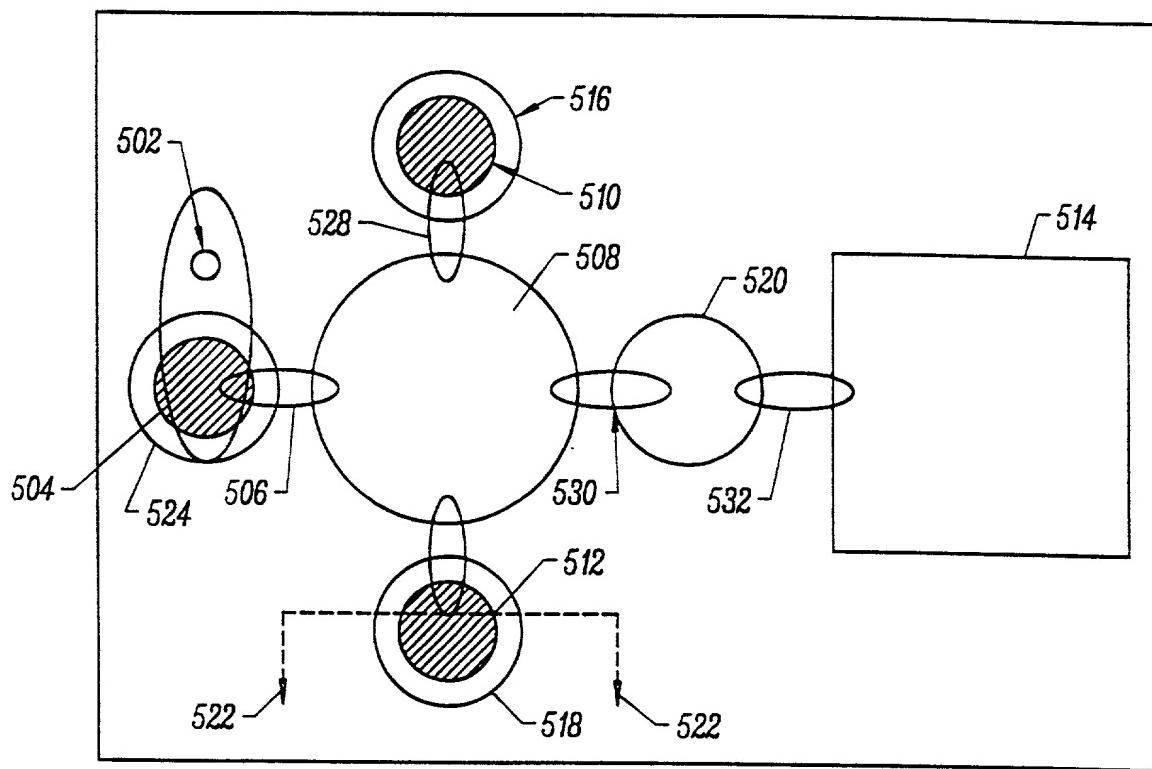


FIG. 5A

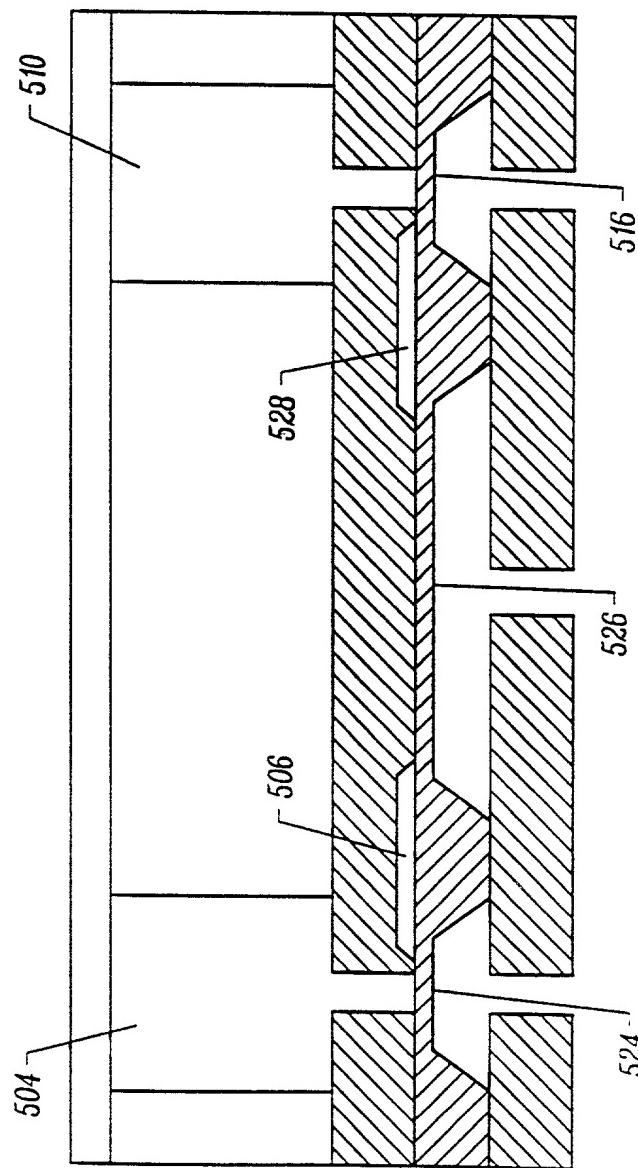


FIG. 5B

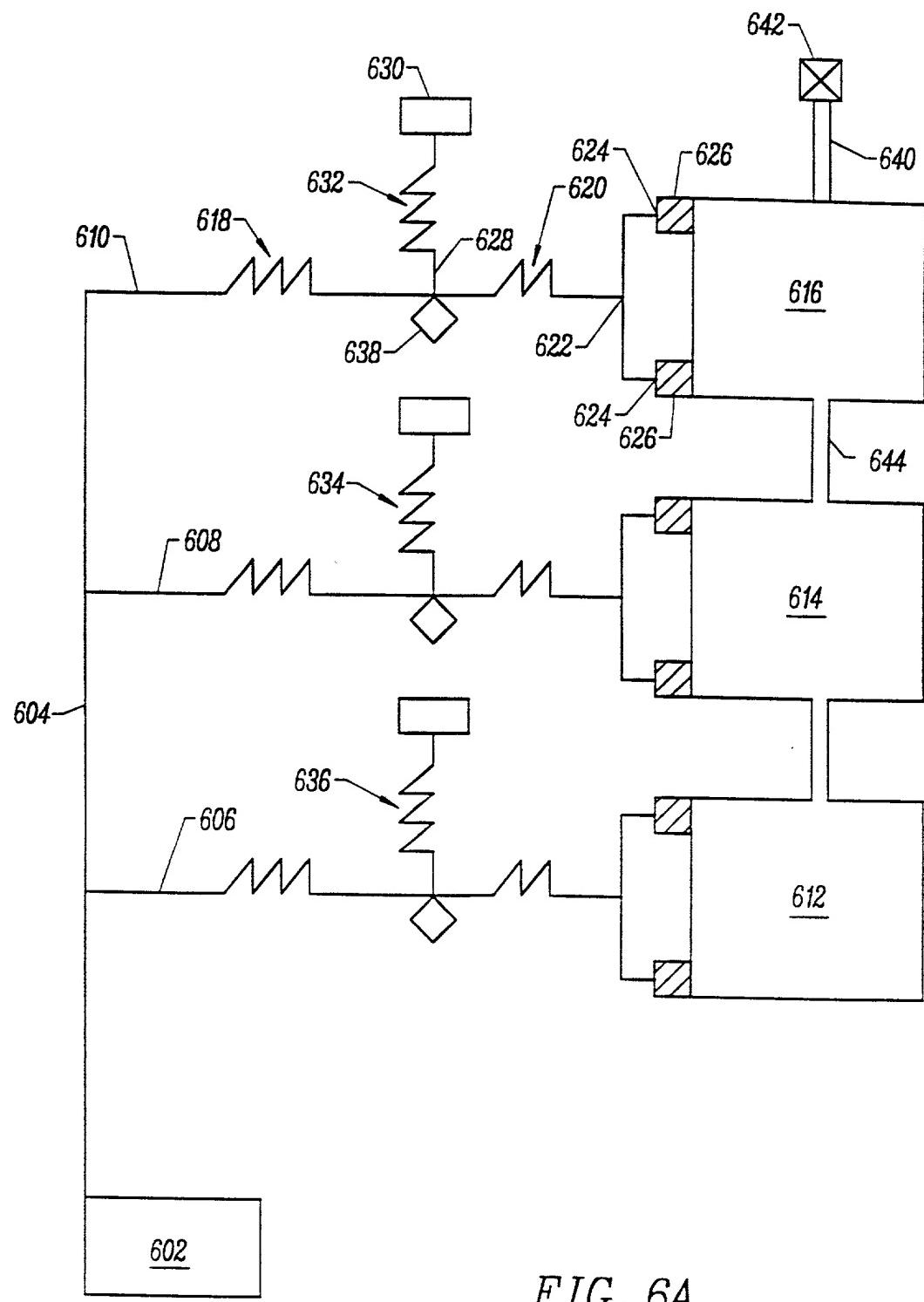


FIG. 6A

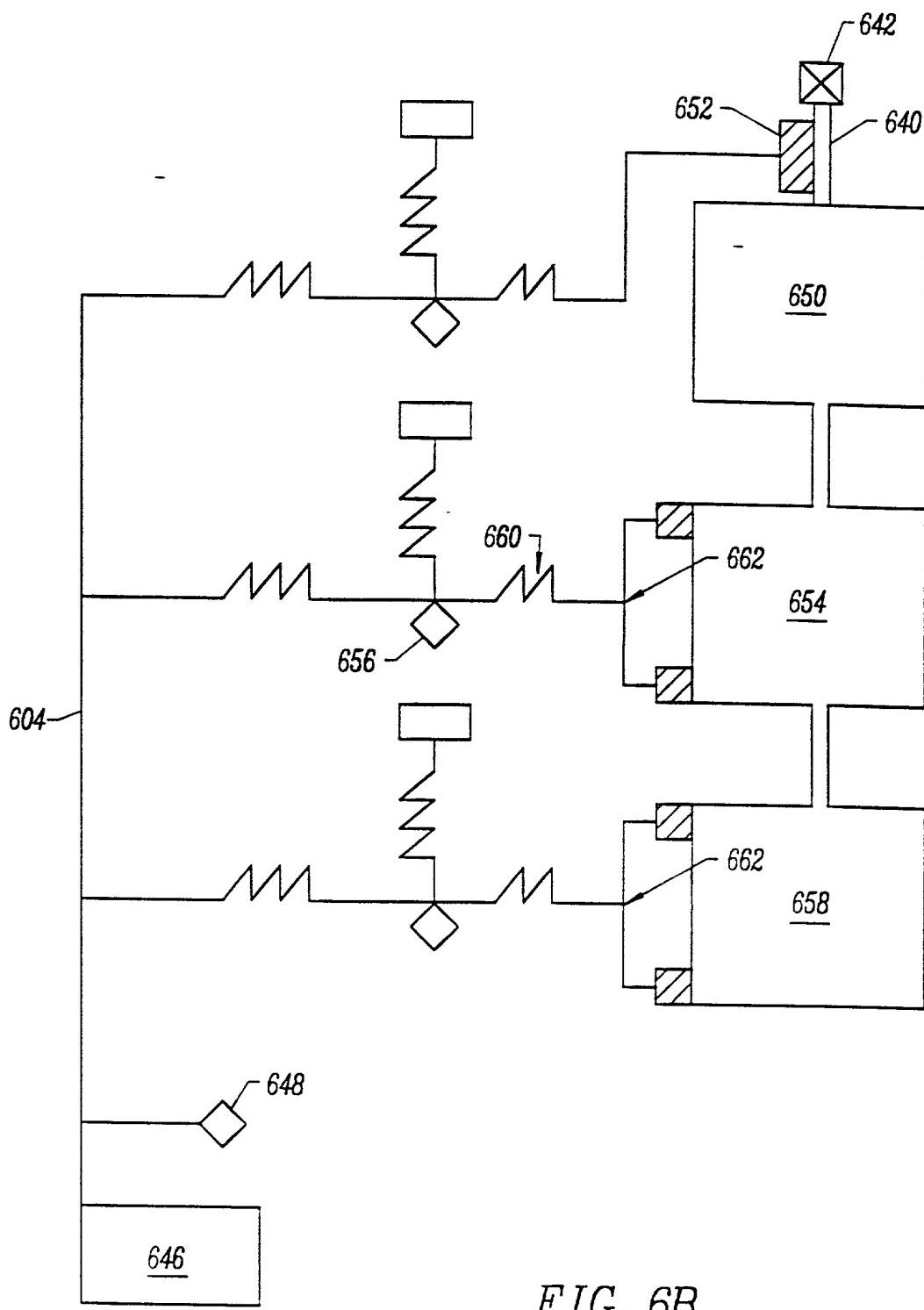
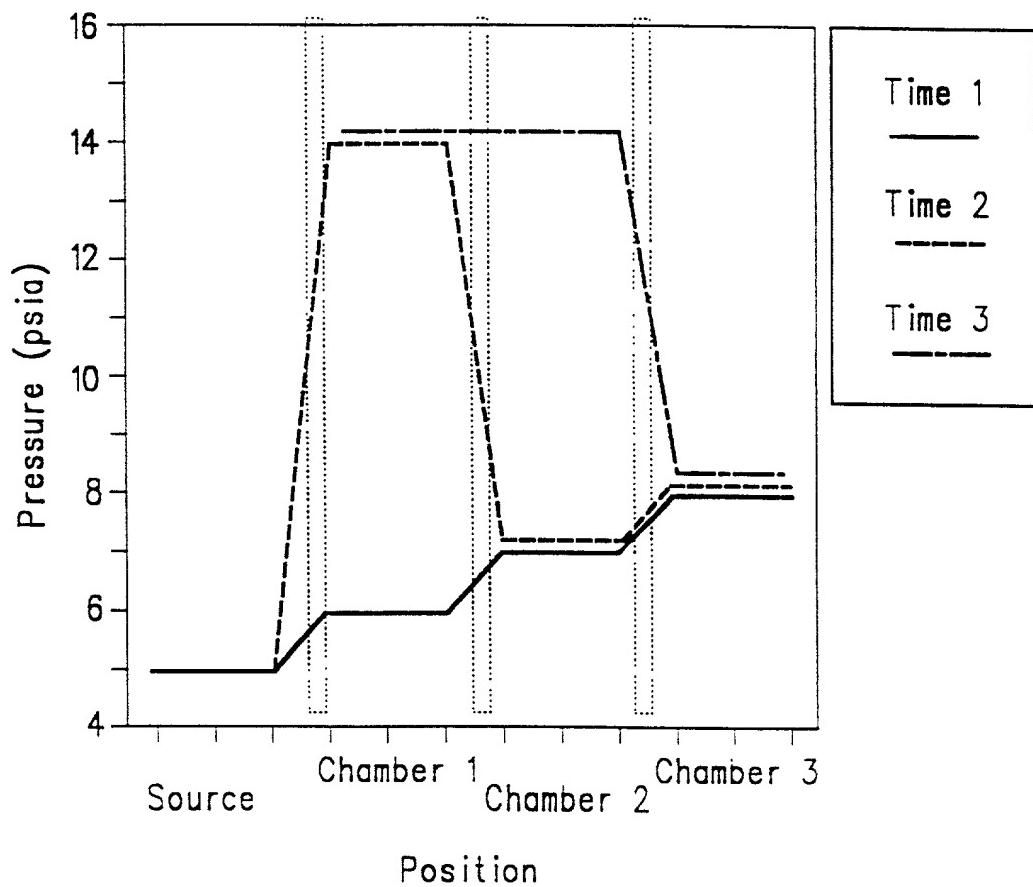


FIG. 6B

### Pressure Distribution Among Control Nodes



*FIG. 6C*

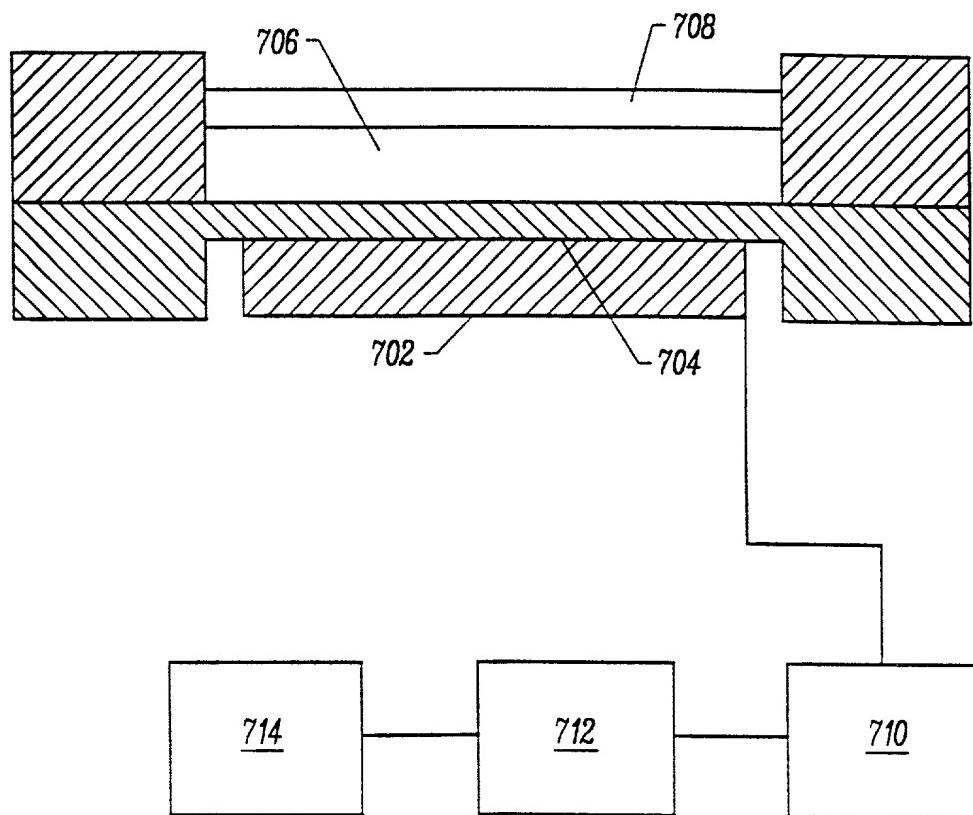


FIG. 7A

## Flow Visualization

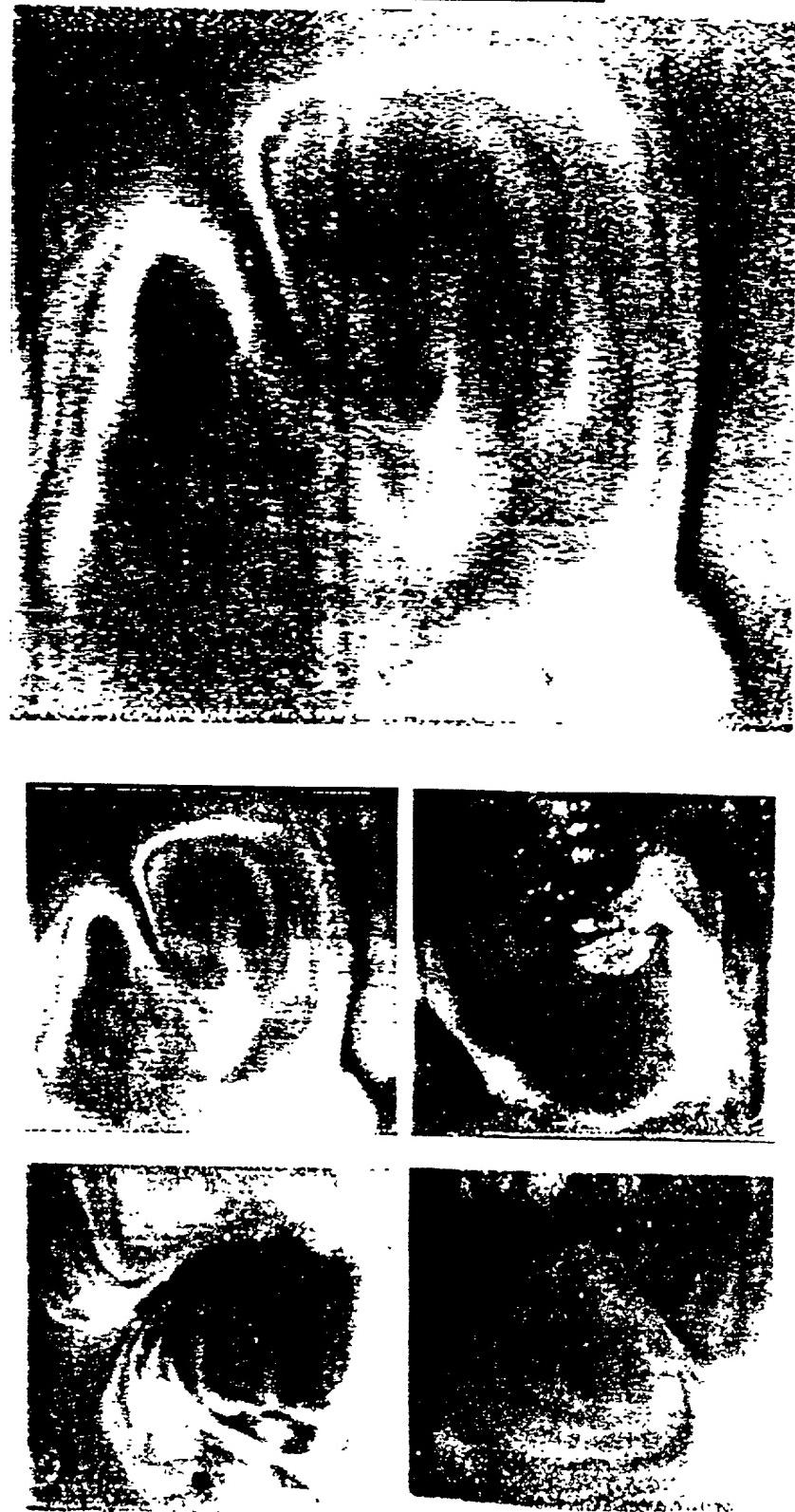


FIG. 7B

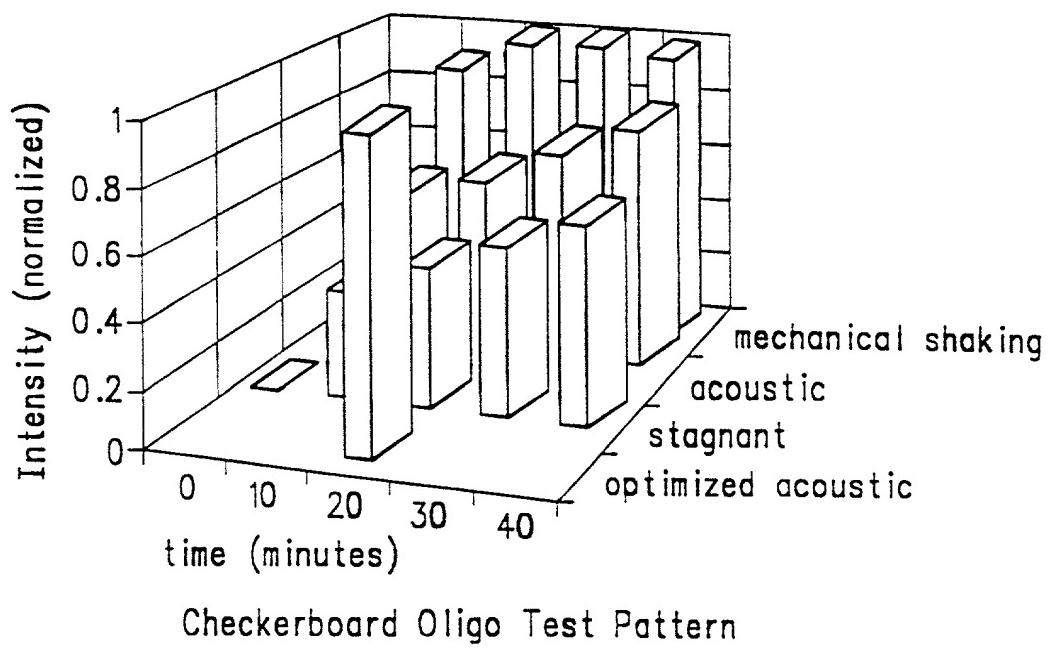


FIG. 7C

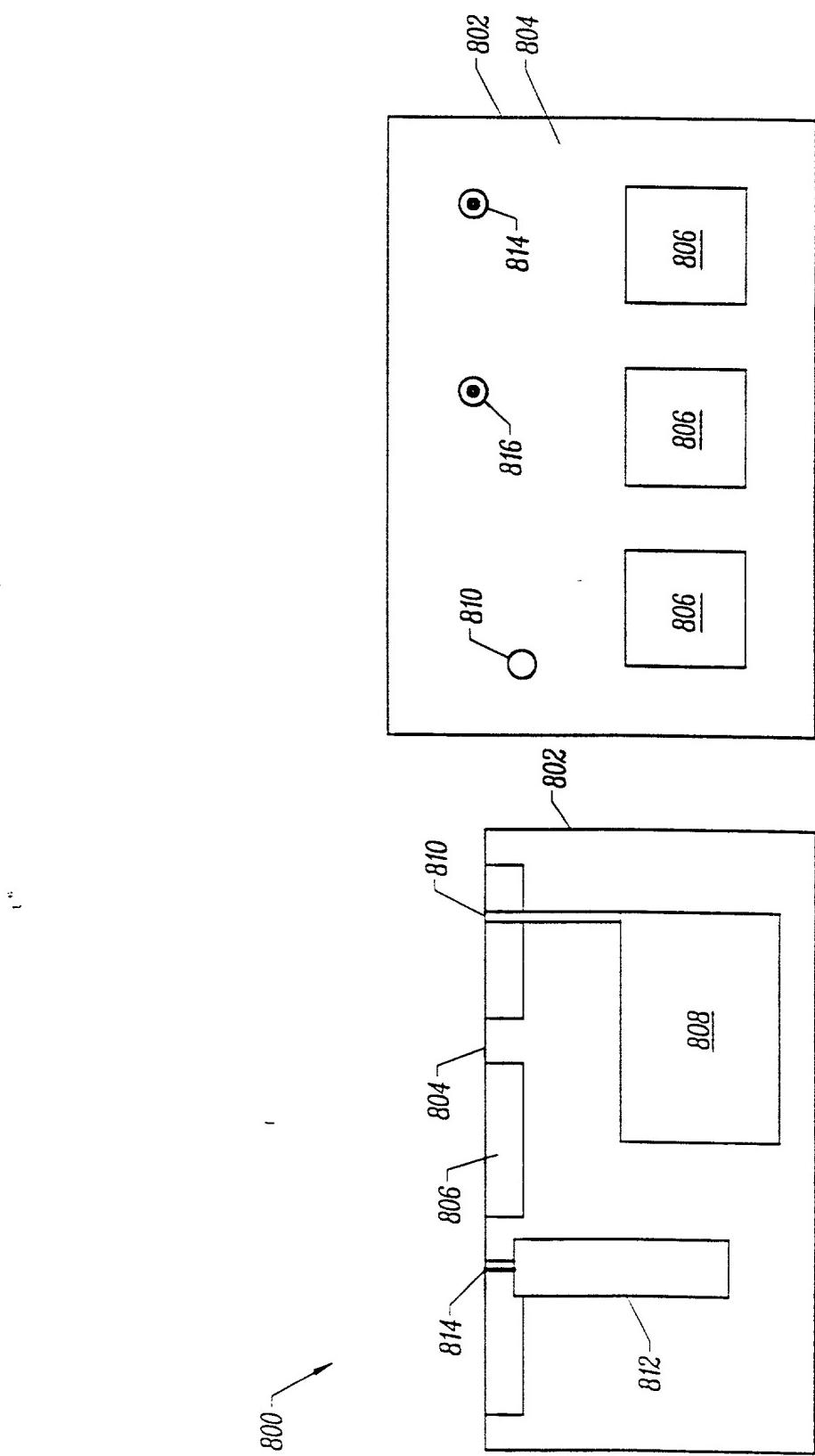


FIG. 8

Cycles:	35	Ini Den	Den	Ann	Fin Ext	Hold
Temp	94.0	94.0	65.0	72.0	72.0	10.0
Time(s)	60	20	40	50	60	1000
Temp Hem	0	0	0	42	0	981
Cyc Hem	19	St. Time [Min]	85.4	Tue. Nov. 14, 1995	11:31 AM	

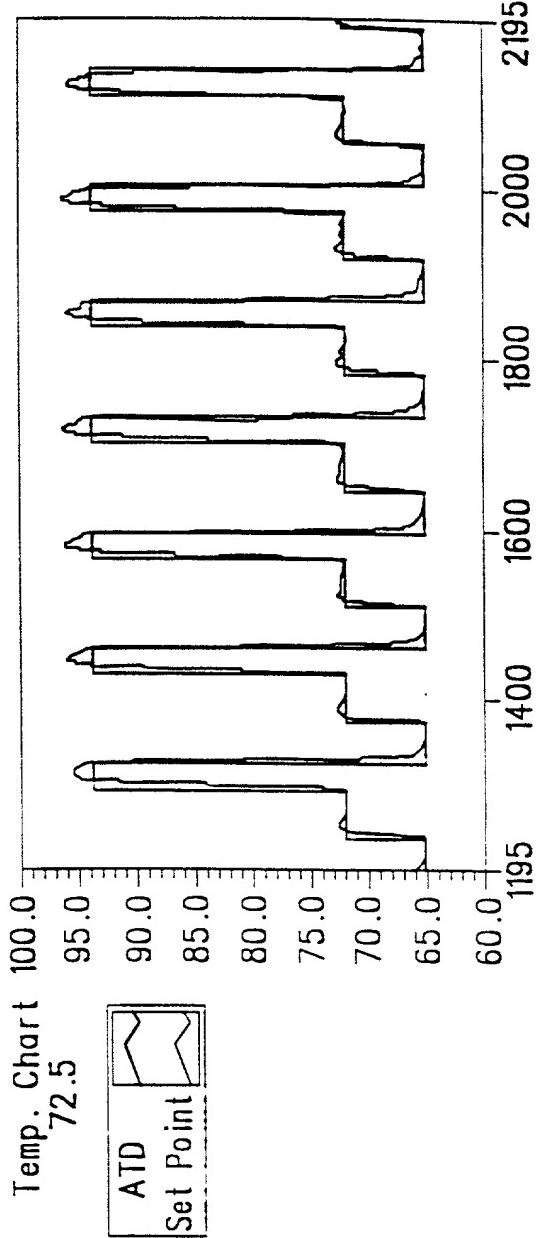
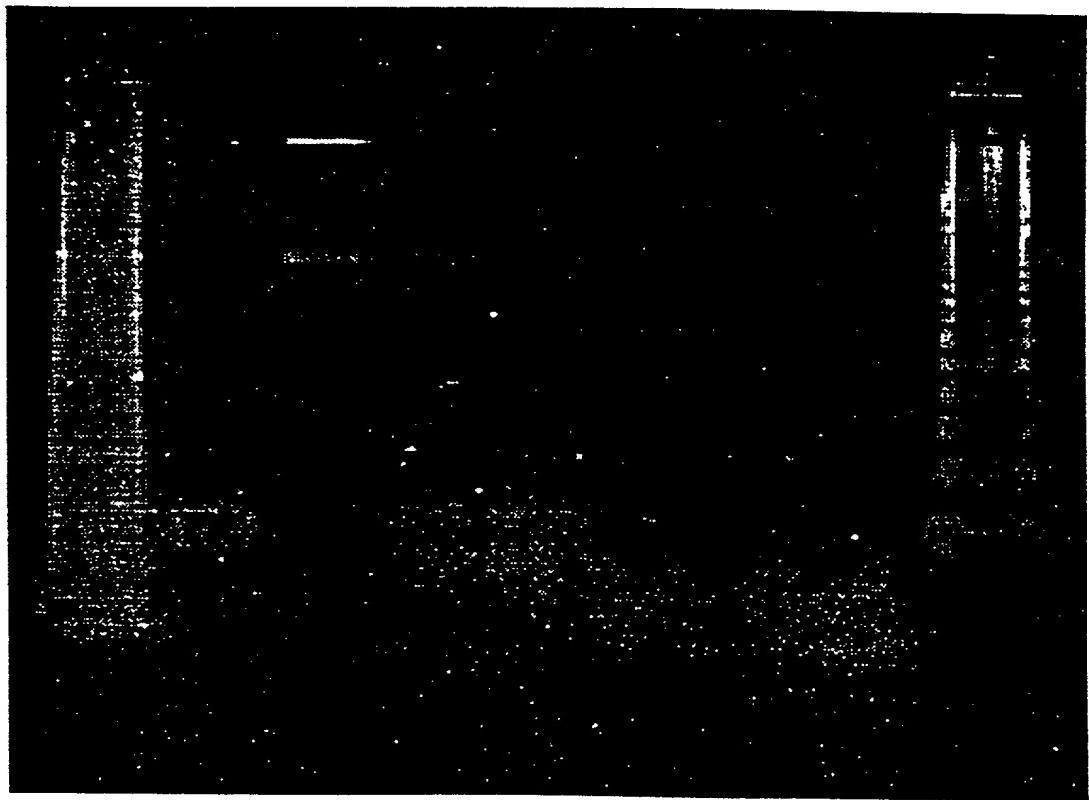


FIG. 9

## Effect of Fragmentation Time at 94C

t = 0 5 10 30 60 120 minutes



Correct Call Rates:

74%	95.8%	95.9%
95.9%	95.5%	83%

FIG. 10A

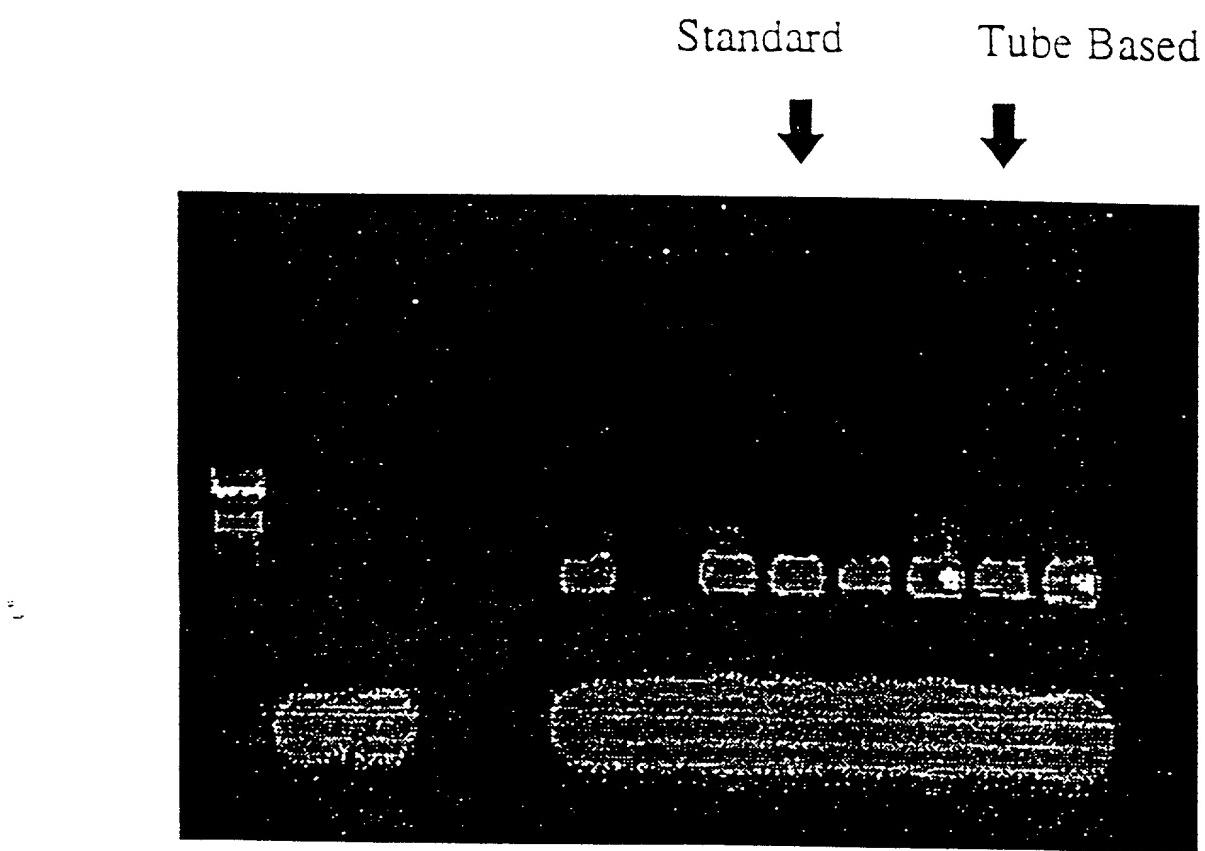


FIG. 10B

## PCR Results

### ■ PCR:

amplification:  $10^9$  (35 cycles)

control      microchamber

▼      ▼

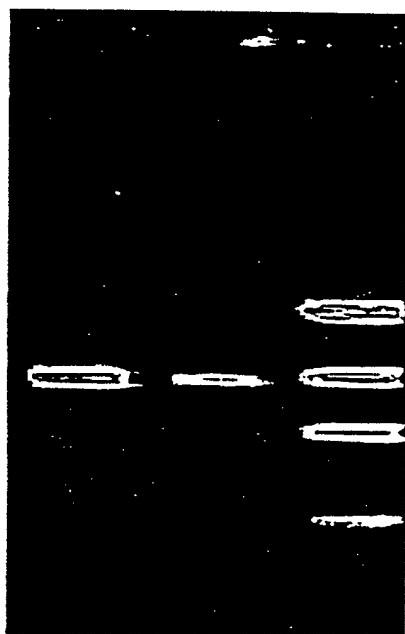


FIG. 10C

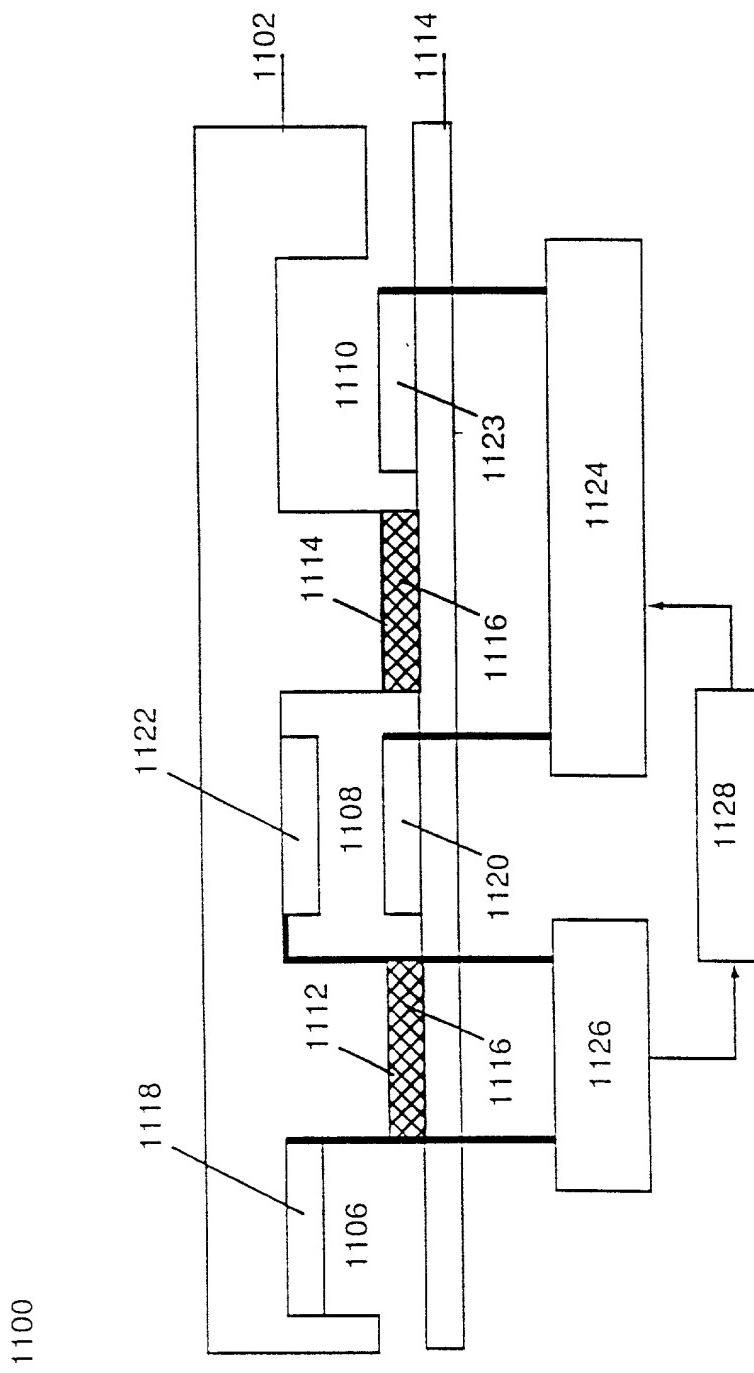


Figure 11

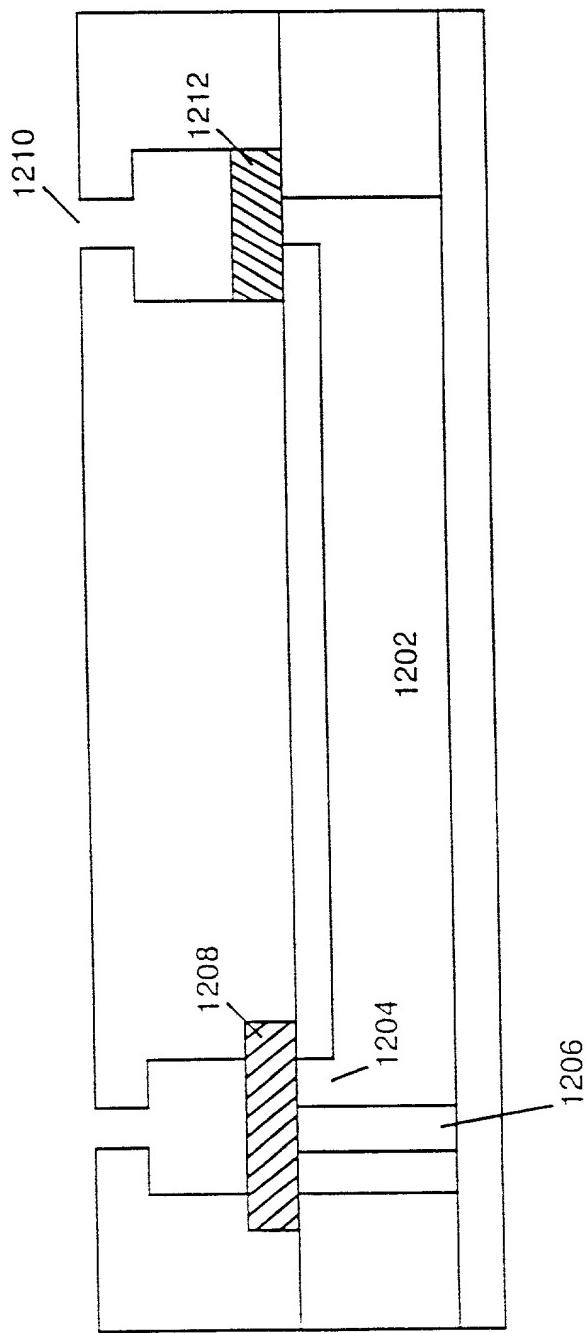


Figure 12a

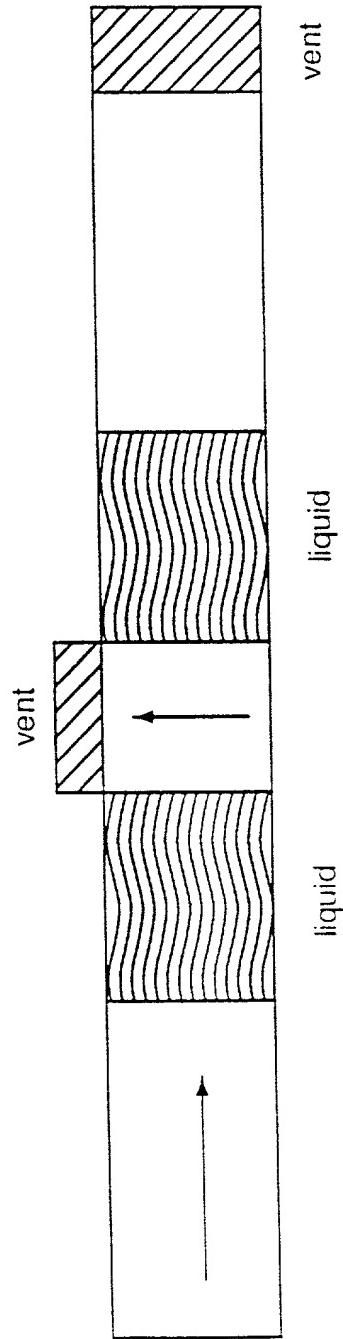


Figure 12b

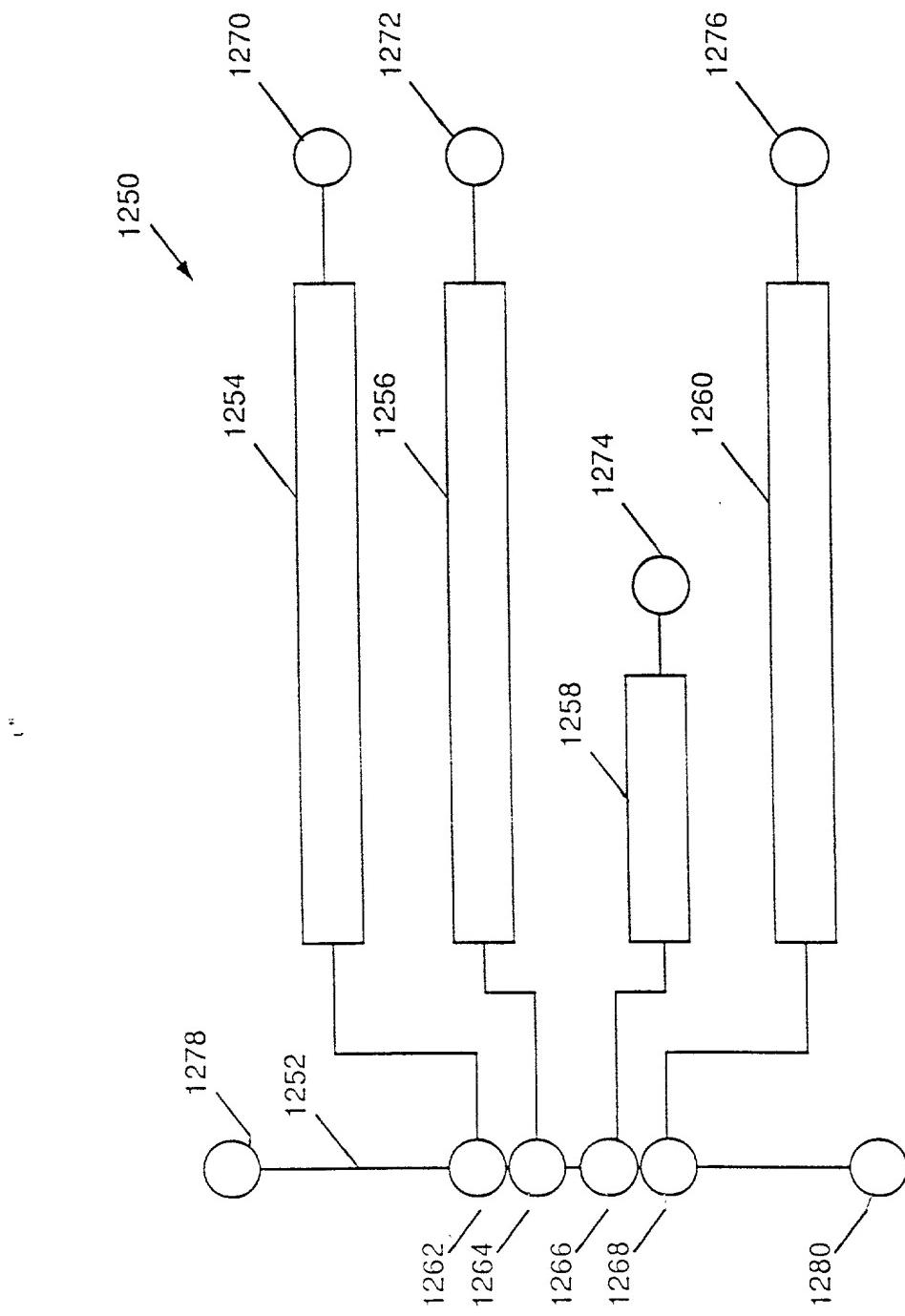


Figure 12c

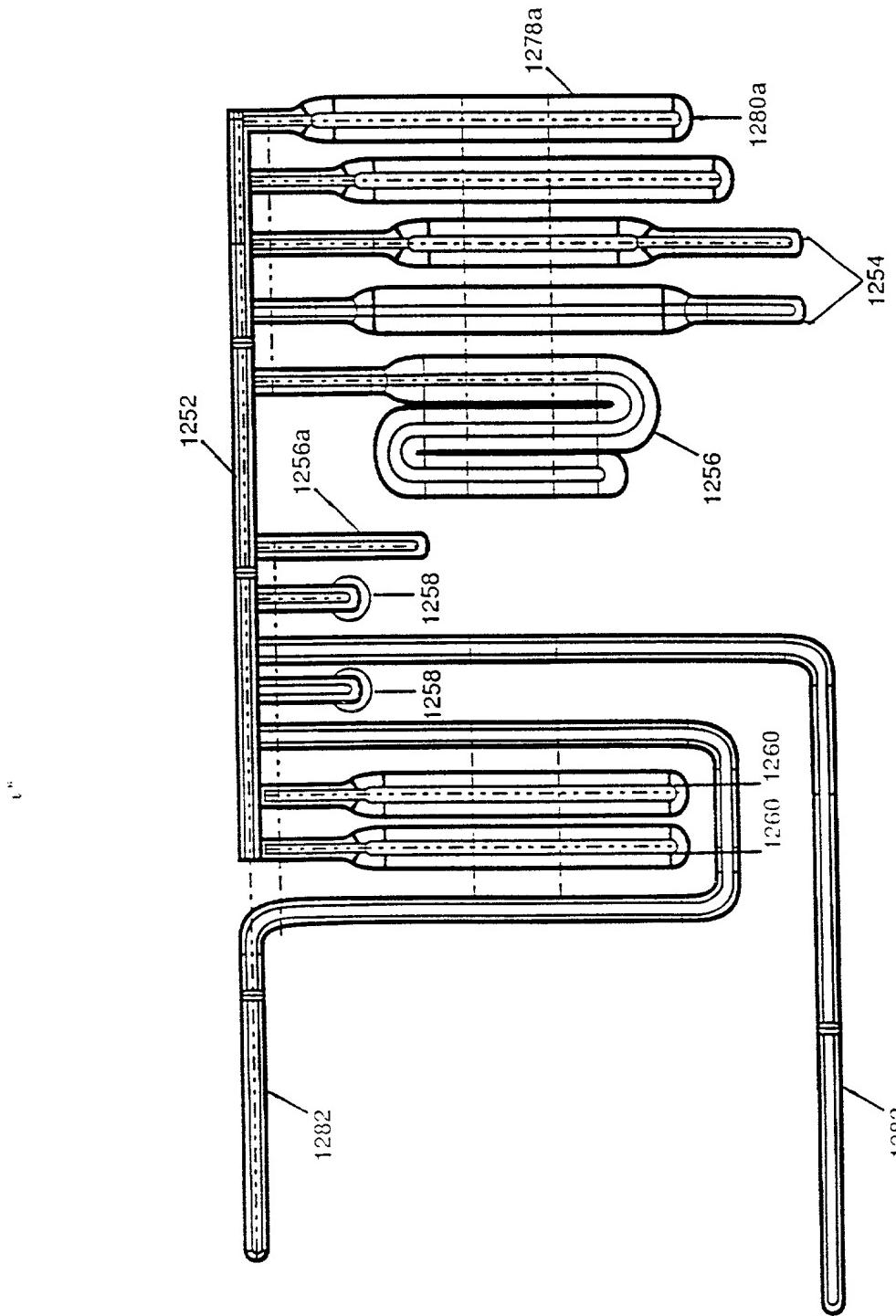


Figure 12d

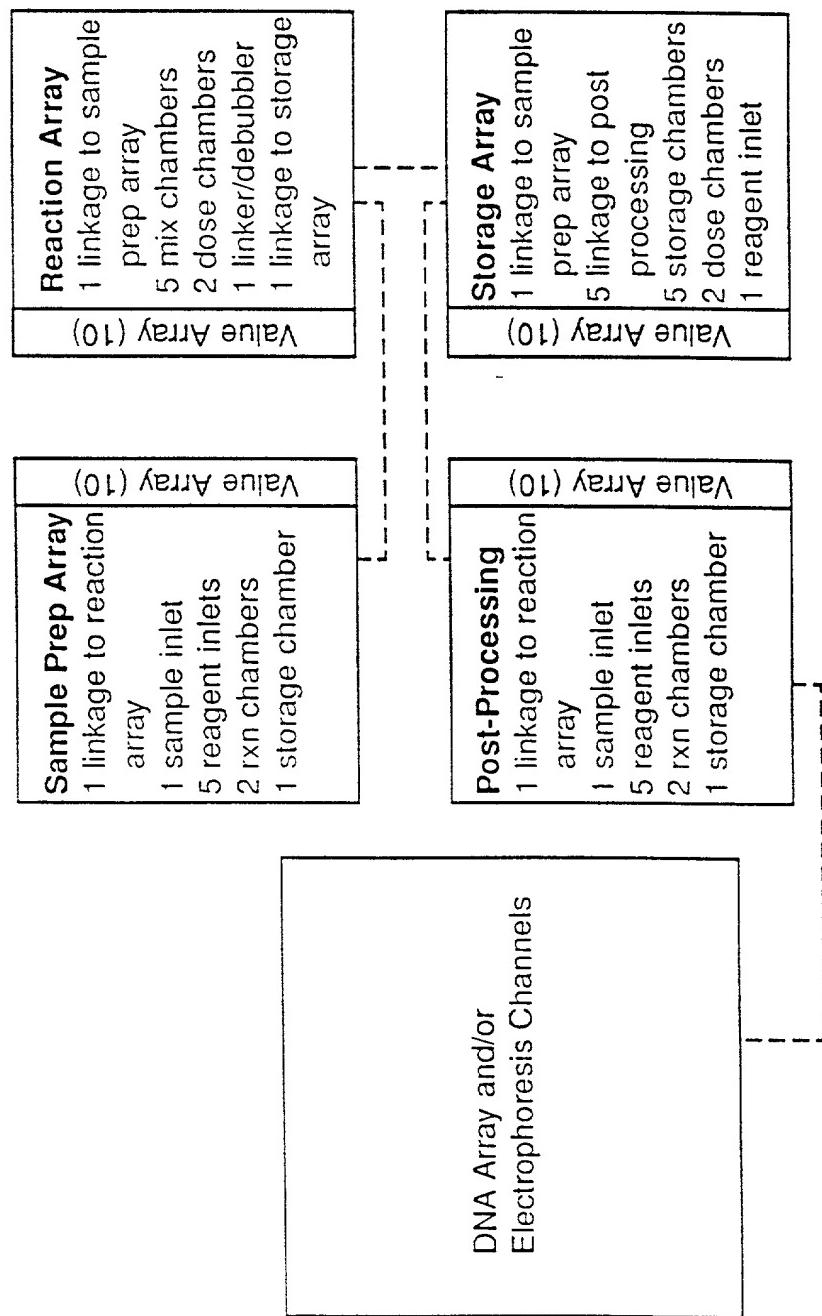


Figure 13

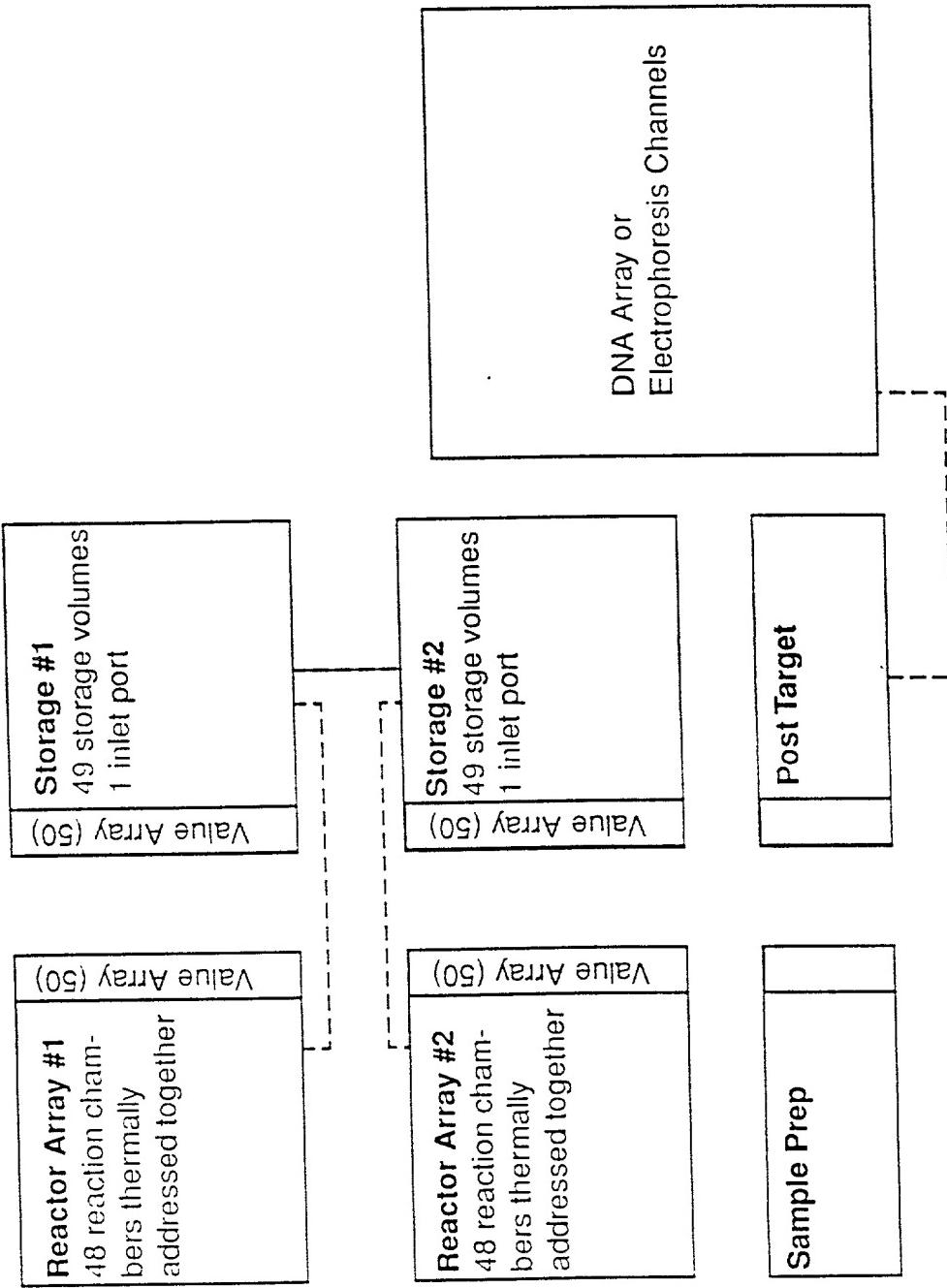


Figure 14

## Thermal Configuration

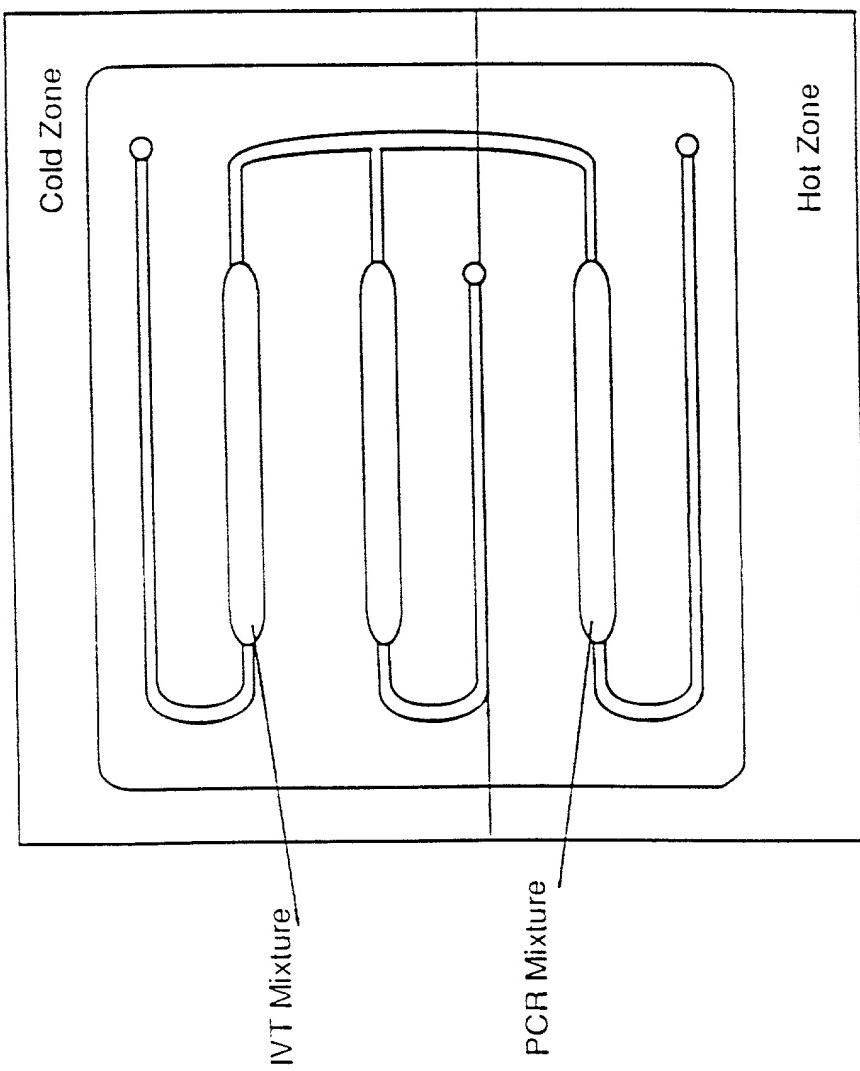


Figure 15a

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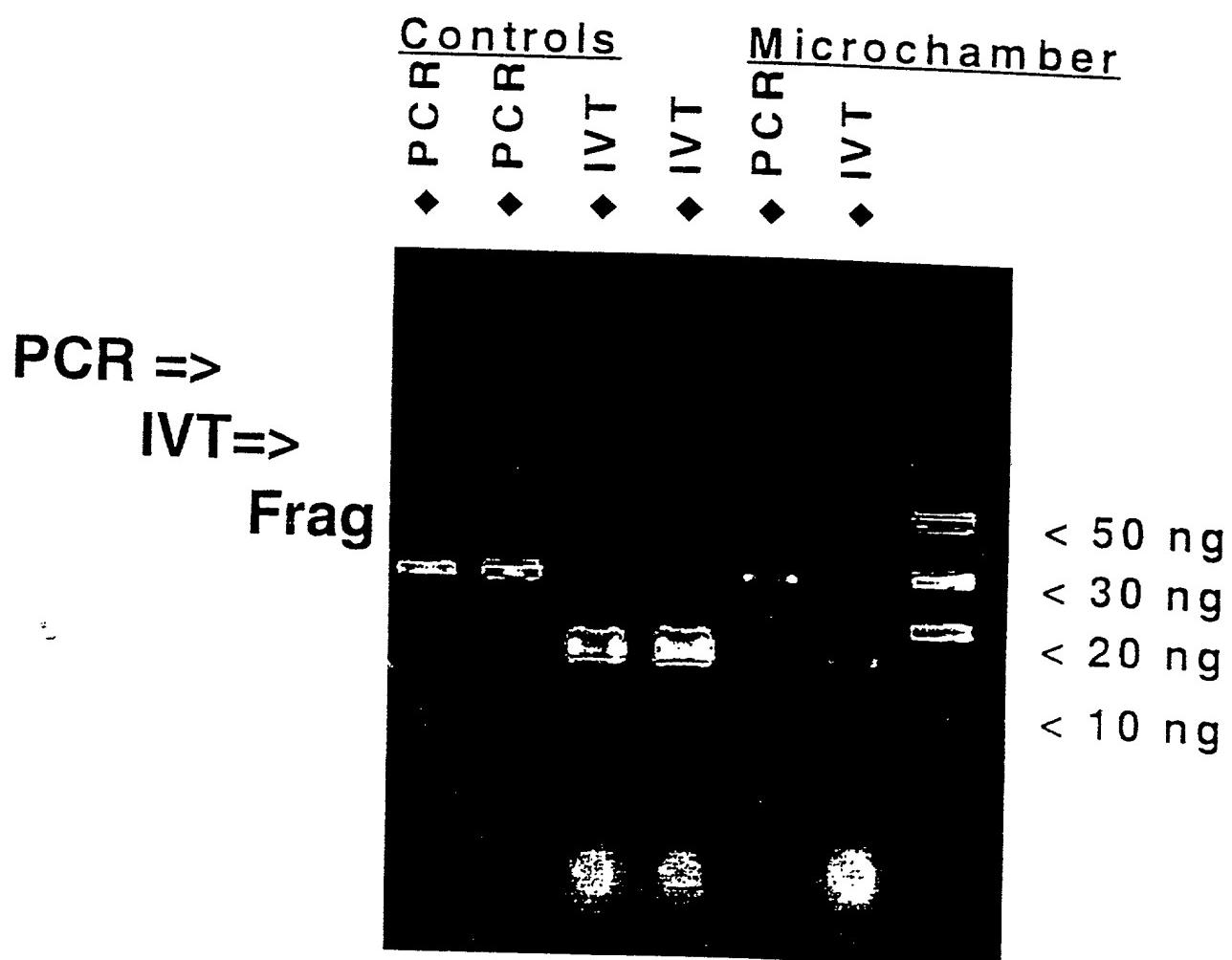


Fig. 15B